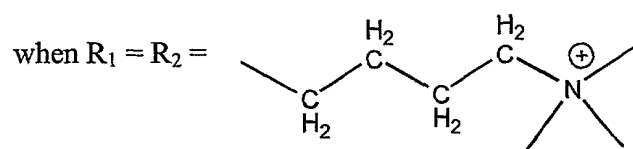


Adenosine Cyclic Ketal (ACK)



and R_3, R_4 and $R_5 =$ hydrogen

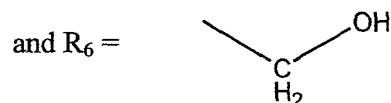


Figure 1A. Chemical structure of adenosine cyclic ketal (ACK) and the chemical formula of the compound nonamethonium adenosine cyclic ketal (nonamethonium ACK).

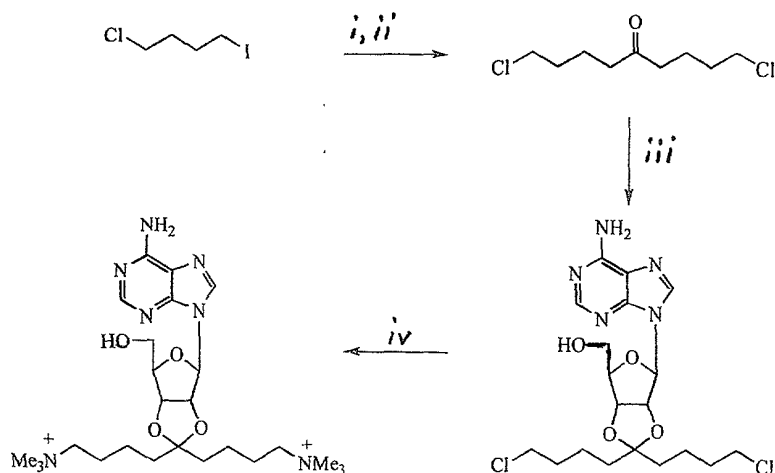


Figure 1B: The synthetic scheme for synthesizing nonamethonium adenosine cyclic ketal. The reagents and conditions are: i) zinc dust, tetrahydrofuran (THF); ii) N-methylpyrrolidine, CoBr_2 , carbon monoxide; iii) adenosine, HCl /dioxane, $(\text{EtO})_3\text{CH}$, DMF; iv) 40% Me_3N in H_2O .

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Fig. 2A

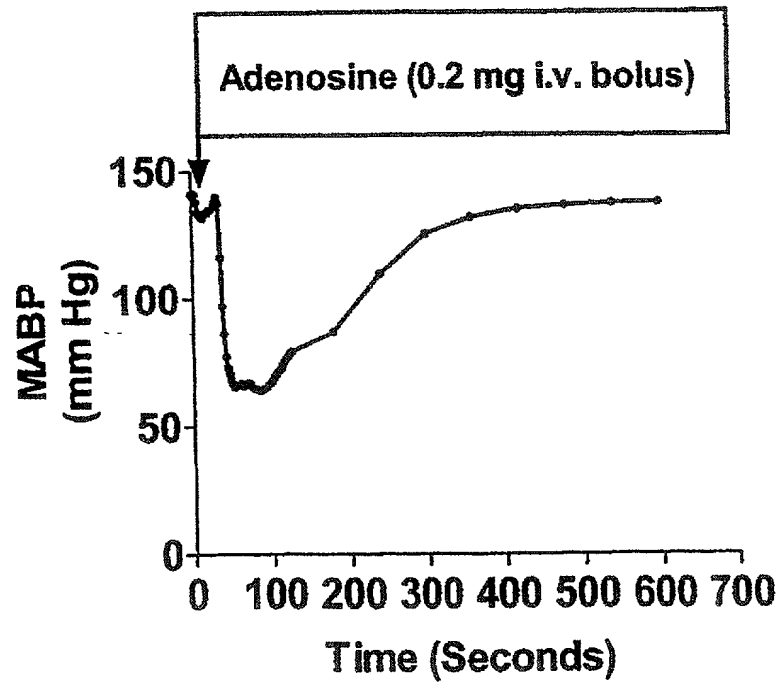


Fig. 2B

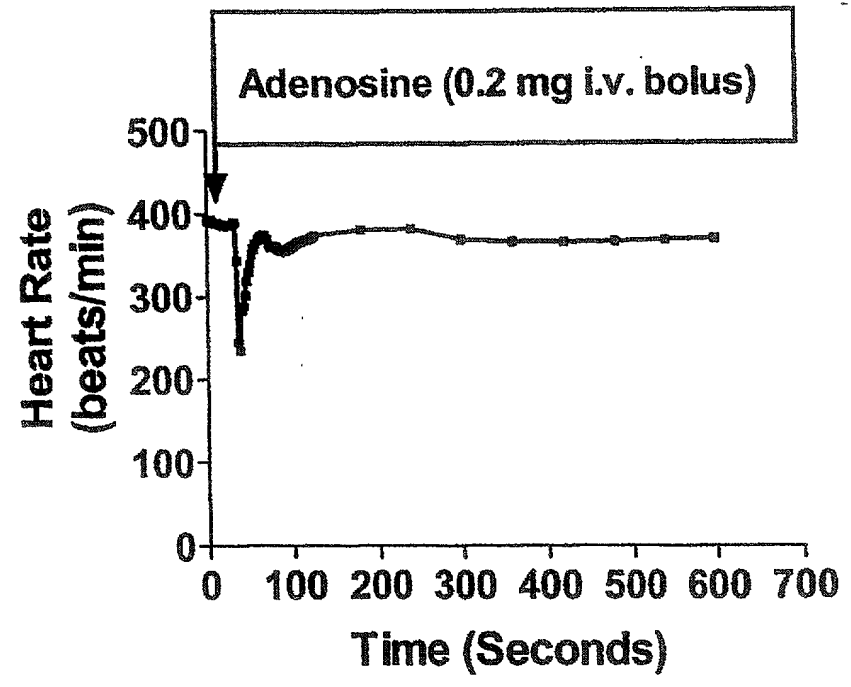


Fig. 3A

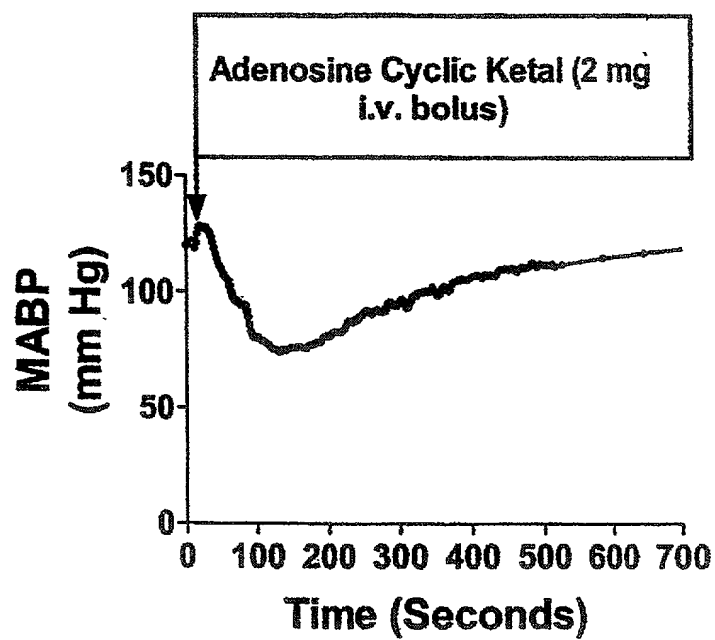


Fig. 3B

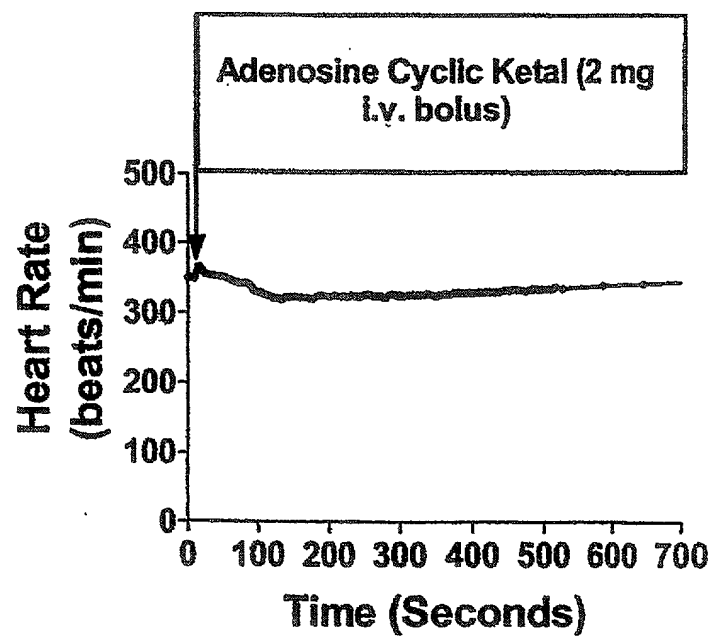


Fig. 4A

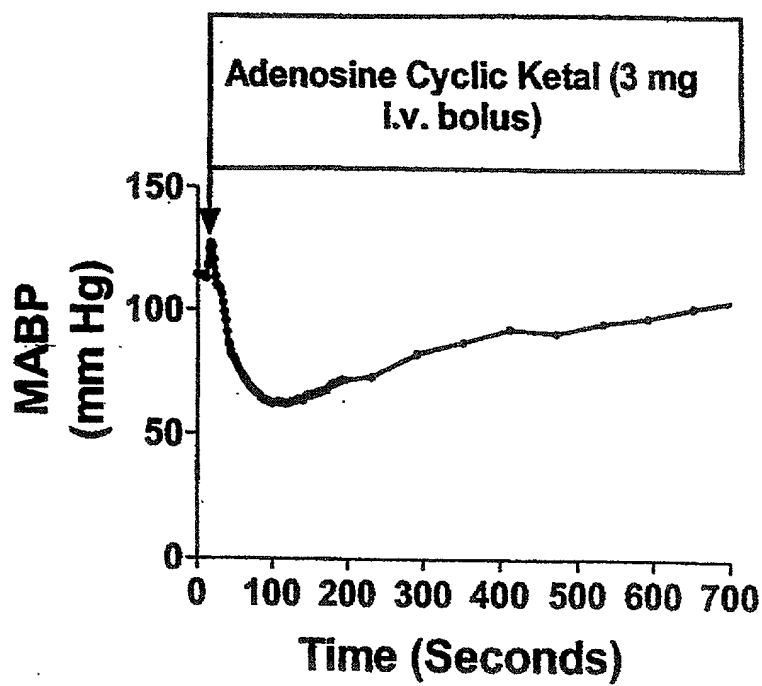
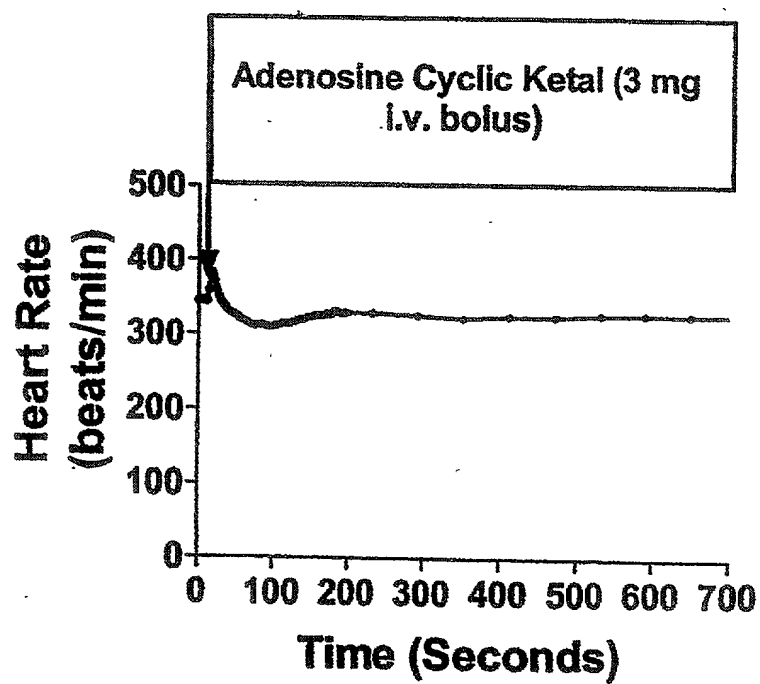
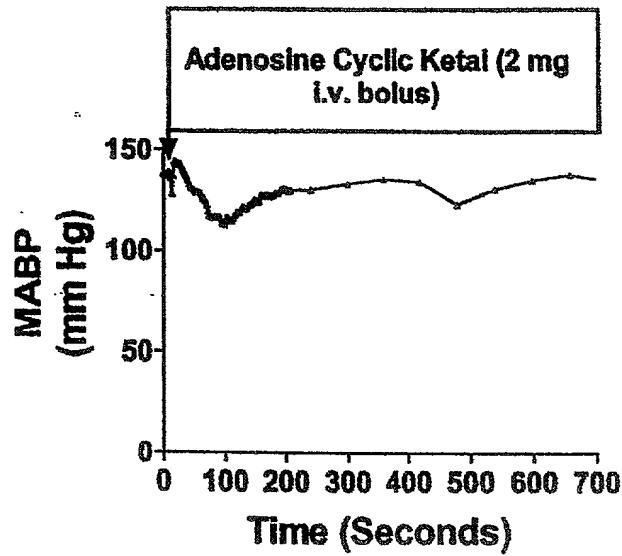


Fig. 4B



Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)

Fig. 5A



Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)

Fig. 5B

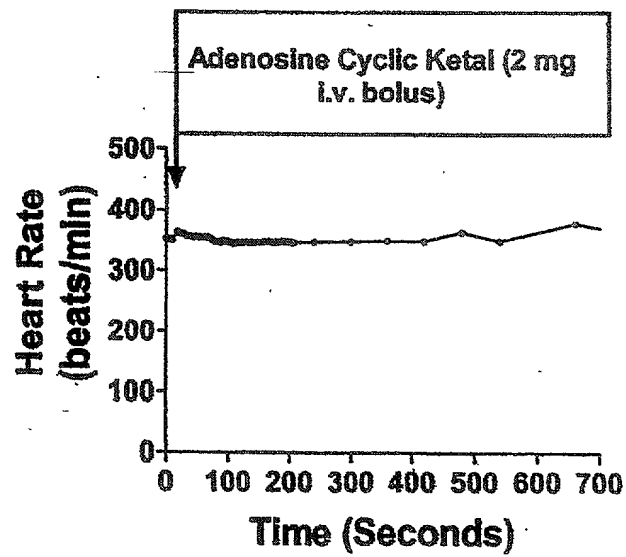


Fig. 6A

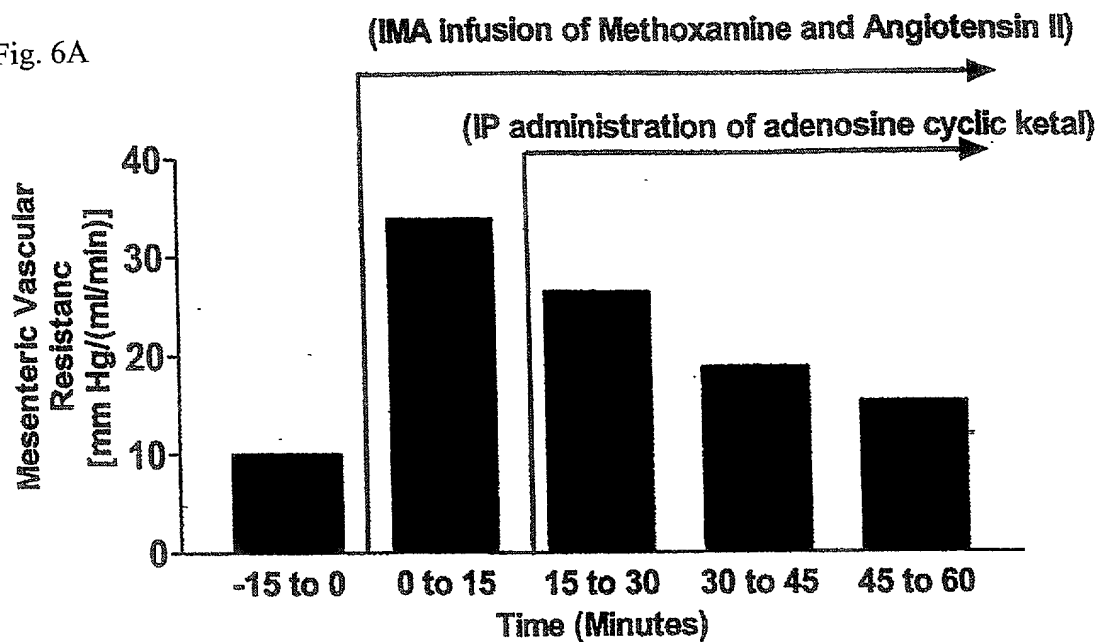


Fig.6B

